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PATENT APPLICATION
Attorney Docket: 11927/46001

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: RIESS et al

Group Art Unit: 2631

Application No.: 09/836,281

Examiner: Not assigned

Filed: April 18, 2001

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For: RELIABLE SYMBOLS AS A MEANS OF IMPROVING THE
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Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

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Pursuant to 37 CFR § 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The paragraphs marked below are applicable.

☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date or the date of filing a CPA, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.

☐ 2. This Information Disclosure Statement is being filed with a Request for Continued Examination (RCE). No certification or fee is required.

☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☐ c. Please debit Deposit Account No. 11-0600 in the amount of \$240.00 in payment of the fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

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Respectfully submitted,

KENYON & KENYON

Date: 12/13/02


Robert L. Hails, Jr.
Registration No. 39,702

Suite 700
1500 K Street, N.W.
Washington, D.C. 20005
Ph.: (202) 220-4200
Fax.: (202) 220-4201

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/836,281
Filing Date	April 18, 2001
First Named Inventor	RIESS et al
Group Art Unit	2631
Examiner Name	Not assigned
Attorney Docket Number	11927/46001

Sheet 1 of 1

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
		Number	Kind Code ² (if known)			
		5,818,876		Love	10/06/98	RECEIVED DEC 16 2002 Technology Center 2600
		5,887,035		Molnar	03/23/99	
		5,229,767		Winter et al	07/20/93	
		5,742,642		Fertner	04/21/98	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T _e
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		EP	0 625 829	A2	AT&T Corp.	11/23/84		
		EP	1 024 631	A1	France Telecom /Telediffusion de France	08/02/00		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Kong et al, "Detection of Amplitude-Phase Modulated Signals Over Frequency Nonselective Rayleigh Fading Channels with Adaptive Symbol-Aided Channel Estimation" IEEE Vehicular Technology Conference, Atlanta, Georgia, USA, IEEE, Conf. 46, April 28-May 1, 1996, ISBN 0-7803-3158-3	
		Hoehner, Peter, "TCM on Frequency-Selective Fading Channels: A Comparison of Soft-Output Probabilistic Equalizers", Proceedings of the Global Telecommunications Conference and Exhibition (GLOBECOM), USA, New York, IEEE, December 2, 1990, ISBN 0-87942-632-2	
		Kong et al, "Adaptive MLSE of QAM Signals over Frequency Nonselective Rayleigh Fading Channels", IEE Proceedings: Communications, Great Britain, Institution of Electrical Engineers, Vol. 145, No. 6, December 1998, ISSN 1350-2425	
		Hart et al, "Maximum-Likelihood Synchronization, Equalization, and Sequence Estimation for Unknown Time-Varying Frequency-Selective Rician Channels", IEEE Transactions on Communications, USA, IEEE Inc., New York, Vol. 46, No. 2, February 1, 1998, ISSN 0090-6778	

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached. Burden Hour Statement: This form is estimated to take 2.0 hours to complete.